SERIES 421

PUSH-PULL END TRUCKS FOR UNDERHUNG SINGLE GIRDER CRANES MAX. 2 TON CAP. SPAN 25 FEET

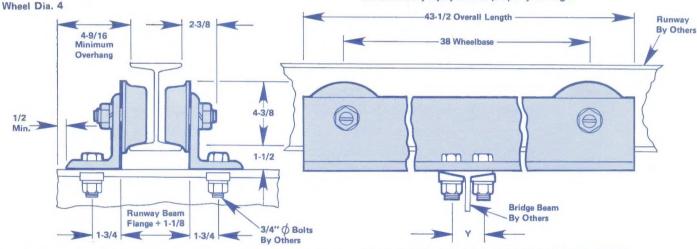
Make your own crane. Designed for light or medium loads, Series 421 Push-Pull End Trucks are the basic component for easy to assemble underhung cranes. Furnished with heat treated gray iron wheels for 2 ton maximum crane capacities with wheel base of 38 inches and spans up to 25 feet.

Wheels are 4" diameter, flanged, dual tread permitting operation on standard I beams or flat flange beams and adjustable through a wide range of flange widths. Wheel bearings are single row ball, lifetime lubricated and shielded.

Parts list, crane fabrication instructions and drilling template are packed with each pair of trucks.

WARNING: Equipment described herein is not designed for and should not be used for, lifting, supporting, or transporting humans.

Failure to comply with any one of the limitations noted herein can result in serious bodily injury and/or property damage.



Cap. Tons	Product No.	Min. Size Runway Beam	Wt. in Lbs.	Max. Allowable Load on Each Wheel in lbs.
2	4210010	6	233	1200

For clearance between runway beam and bridge beam, subtract toe of runway beam from 1-1/2" dimension.

All Dimensions in inches unless otherwise noted.

WARNING: Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the system in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact the Material Handling Group of Acco Babcock Inc. at 1110 East Princess Street, York, Pennsylvania 17403 for additional information if necessary.



	beyond			

CRANE FABRICATING & CLEARANCE DIMENSIONS

Cap. Tons	Span Ft.	Recommended Bridge Beams	Υ
	10	6" x 12.5 #	2
	15	8" x 18.4 #	21/4
1	20	10" x 25.4 #	2¾
	25	12" x 31.8 #	3
	10	8" x 18.4 #	21/4
0	15	10" x 25.4 #	23/4
2	20	12" x 31.8 #	3
	25	15" x 42.9 #	31/2

No optional equipment.

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SERIES 425 End Trucks For Underhung Single Girder Motorized Dual Drive/Hand Operated Cranes Capacities: 1/2 Ton To 10 Tons Span To 50 Feet

42-8

Issued 1-4-88 Supersedes 5-1-86





Series 425 underhung single girder end trucks are designed for either hand operation or motorized crane applications up to 50 foot spans. They combine the versatility and experience of Acco with the economy of your own construction.

The end trucks are ruggedly constructed of structural channels jig welded and bored to provide true alignment of wheels and axles. Split truck design makes crane assembly easy without wheel or axle removal.

Four different wheel types allow these end trucks to be used for virtually any application. Wheels are available in either steel or bronze and have tapered or flat tread. All wheels are single flanged to provide minimum skewing and smooth operation. Steel wheels have hardened treads.

End truck design enables simple adjustment for use on a wide range of runway beam sizes. Girder connection pads are precision drilled and reinforced for heavy duty bolted crane construction. End plates are designed as combination drop-down lugs and rail sweeps.

Ordering end trucks, components, and structural material separately can mean considerable savings in shipping charges and time required for delivery.

Parts list and crane fabrication instructions are packed with each pair of end trucks.

WARNING Buyer and user warrants that the structure in which and to which this system or equipment is to be installed is adequate to sustain the loads that will be imposed on it by said system or equipment when it is operating as intended.

			Max.	Max. End Truck Cap	Runw	ay Beam (b)	Range	End	Wheel	Gear To	End Truck																																																																			
Product	Wheel	Сар.	Span	At Center	Min. Flange Width		Min. Flange Width		Min. Flange Width		Min. Flange Width		Min. Flange Width		Min. Flange Width		Min. Flange Width		Min. Flange Width						Min. Flange Width		Min. Flange Width										Min. Flange Width				Min. Flange Width		Min. Flange Width		n. Flange Width		. Flange Width		in. Flange Width				Min. Flange Width		Min. Flange Width		Min. Flange Width		nge Width Truck		Min. Flange Width		Flange Width		lin. Flange Width		Min. Flange Width		Tread	Pinion	Weight							
Number	Туре	(Tons)	(Ft.)	(a)	Ht.	Min.	Max.	Channel	Diameter	Ratio	(Pair)																																																																			
4250010 4250020	Tapered Steel Flat Steel	2	50	11.400 lbs.	10″	45/, "	51/2 "	C7 x 9.8#	5″	51:26	700 lbs.																																																																			
4250070 4250080	Tapered Bronze Flat Bronze	3	35	11,400 lbs. 10		→ / _B	3 72	C/ X 9.0#	3	31.20	700 105.																																																																			
4250030 4250040	Tapered Steel Flat Steel	6	50	- 22.600 lbs.	12"	5"	61/4"	C9 x 13.4#	6"	59:26	1,000 lbs.																																																																			
4250090 4250100	Tapered Bronze Flat Bronze	71/2	15	22,000 105.	12	5	0 74	C9 X 13.4#	0	59.20	1,000 105.																																																																			
4250050 4250060 4250110 4250120	Tapered Steel Flat Steel Tapered Bronze Flat Bronze	10	50	32,500 lbs.	15"	5½"	7"	C10 x 20.0#	8"	78:26	1,500 lbs.																																																																			

- (a) End truck loads must include:
 - 1. Live load impact allowance of $\frac{1}{2}$ % of lifting speed in FPM, but not less than 15% when used with electric powered hoist.
 - 2. Dead load impact allowance of 10% (includes weight of crane, hoist and attachments).
- (b) End trucks can be furnished for larger runway beams upon request.

END TRUCK KIT CONTAINS THE FOLLOWING:

- 2 End Trucks with pinions
- Crane Bridge Girder Attaching Hardware
- 1 Crane Building Instruction and Parts List Manual

OPTIONAL EQUIPMENT FOR MOTORIZED DUAL DRIVE/ HAND OPERATED CRANE

The descriptions and product numbers for the following equipment are found in Section 45–1 through 45–4.

- 1. Reducer kit
- 2. Motor and brake kits
- 3. Control kits
- 4. Disconnect switch
- 5. Flatwire festoon tagline electrification
- 6. Bumper kit

WARNING Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the system in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact the Acco Chain and Lifting Products Division at 76 Acco Drive, York, Pennsylvania 17402 for additional information if necessary.

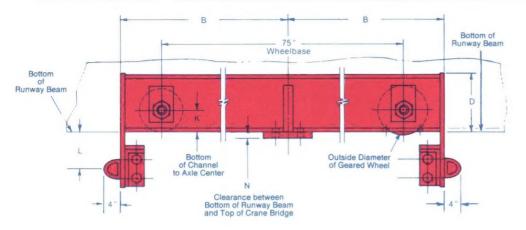
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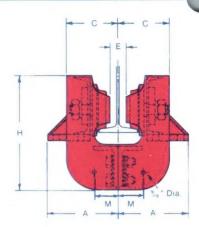


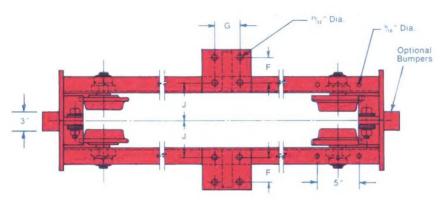
SERIES 425 End Trucks For Underhung Single Girder Motorized Dual Drive/Hand Operated Cranes

1/2 to 10 TONS

42-9 Issued 1-4-88







Product Number	(a)	В	(a)	D (a)	(a)	F	G	Н	J (a)	K	(a)	M (a)	N (a)
4250010 4250020 4250070 4250080	83/4"	43"	61/4"	71/4"	2"	3"	3"	1378"	411/16"	27/8"	3¾"	213/16"	3/4"
4250030 4250040 4250090 4250100	97/8"	43"	71/8"	91/4"	21/4"	3½"	3½"	17¼"	51/4"	3%"	4%"	27/8"	3/4''
4250050 4250060 4250110 4250120	105/8"	437/8"	75%"	101/4"	2"	3½"	33/4"	17%°	513/16"	4½"	41/4"	27/8"	3/4"

(a) Dimension shown for minimum runway beam size. Dimensions approximate.

Warning Equipment described herein is not designed for, and should not be used for lifting, supporting, or transporting humans. Modifications to upgrade, rerate, or otherwise alter the hoist or crane equipment shall be authorized only by the original manufacturer or qualified professional engineer. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.



Acco Chain & Lifting Products Division

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Issued 1-4-88 Supersedes 2-1-84

SERIES 430

Motor Driven/Hand Operated End Trucks For Top Running, Single Girder Cranes

CAPACITIES 1 to 10 TONS MAXIMUM SPAN to 60 FEET

Series 430 top running single girder end trucks are designed for either hand operation or motorized crane applications up to 60 ft. spans. They combine the versatility and experience of *Acco* with the economy of your own construction.

The end trucks are of welded steel channel construction equipped with diaphragms, jig welded, and bored to provide alignment of wheels, axles and drive shaft. Wheel replacement is accomplished without dismantling end trucks because of easy to remove axle.

The end truck wheels are double flange alloy steel with hardened, tapered treads to assist in aligning and centering the bridge on the runway rails, resulting in reduced flange wear. Wheels are equipped with pre-lubricated, tapered roller bearings, two to each wheel.

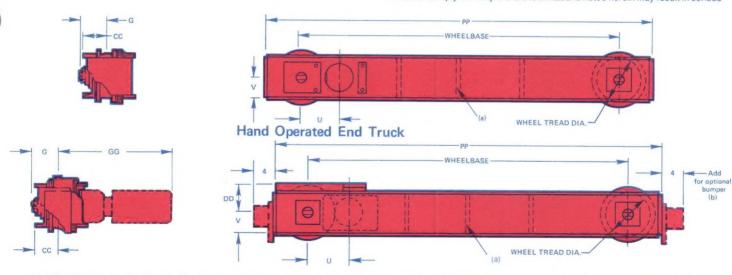
Ordering end trucks, components, and structural material separately can mean considerable savings in shipping charges and time required for delivery.

Parts lists and crane fabrication instructions are packed with each pair of trucks.

WARNING:

Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Modifications to upgrade, rerate, or otherwise alter the hoist or crane equipment shall be authorized only by the original manufacturer or qualified professional engineer.

Failure to comply with any one of the limitations noted herein may result in serious



Max. Cap. Per Pair (Tons)	Max. Span (Ft.)	Product Number	Wheel Base (In.)	Wheel Tread Dia. (In.)	Max. ASCE Rail	Gear to Pinion Ratio	Max. Truck Cap. at Center Between Channels (Lbs.) (c)	End Truck Channel	G (ln.)	GG (In.) (e)	U (ln.)	V (ln.)	CC (ln.)	DD (ln.)	PP (ln.)	Weight Per Pair (Lbs.)
-	40	4300370	60	8	40 #/Yd	45:15	17,400	C8x11.5 #	5	30	6	4	4-1/2	5-5/8	72	620
5	60	4300380	100	8	40 #/Yd	45:15	21,000	MC8x21.4 #	5-3/4	30-1/4	6	4	5-3/4	5-5/8	112	1160
	40	4300390	60	10	40 #/Yd	56:15	29,900	C10x15.3 #	5-1/2	30-1/4	7-1/8	5	5-1/8	6-5/8	74-3/4	860
40	40	4300400	60	10	60 #/Yd	56:15	29,900	C10x15.3 #	5-1/2	30-1/4	7-1/8	5	5-1/8	6-5/8	74-3/4	860
10	60	4300410	100	10	40 #/Yd	56:15	33,300	MC10x28.5 #	6-1/2	30-1/2	7-1/8	5	6-1/2	6-5/8	114-3/4	1580
	60	4300420	100	10	60 #/Yd	56:15	33,300	MC10x28.5 #	6-1/2	30-1/2	7-1/8	5	6-1/2	6-5/8	114-3/4	1580

- (a) End truck Nos. 4300370, 4300390, & 4300400 have one diaphragms. End truck Nos. 4300380, 4300410, & 4300420 have three diaphragms.
- (b) Bumper dimension varies with crane speed; maximum dimension shown.
- (c) End truck loads must include:
 - (1) Live load impact allowance of 1/2% of lifting speed in FPM, but not less than 15% when used with electric powered hoist.
 - (2) Dead load impact allowance of 10% (includes weight of crane, hoist, and attachments).
- (d) For hand operation, the drive shaft diameter is 1-1/4 inches.
- (e) Dimension shown is for drive with two speed motor. Subtract 2 inches for drive with single speed motor.



SERIES 430 Motor Driven/Hand Operated End Trucks For Top Running, Single Girder Cranes

43-2 Issued 1-4-88



END TRUCK KIT CONTAINS THE FOLLOWING:

- 2 End Trucks with
 - 2 Pinions
 - 2 square keys 5/16" x 5/16" x 1" long
 - 1 Crane Building Instruction and Parts List Manual

OPTIONAL EQUIPMENT FOR HAND OPERATED CRANES



HAND GEARED KIT, Product Number 6432030 consisting of

- 2 End truck bearings
- 1 Handwheel
- 1 Floating guard
- 1 set collar
- Miscellaneous attaching hardware

HAND CHAIN, Product No. 6100040

Specify length; should be twice the distance from the runway rail to floor. Bottom elevation of hand chain drop should be 24 inches above the floor.



BEARING AND SUPPORT PLATE, Product Number 6432040

Must be used every 10 feet of crane's span to support bearing shaft.



SHAFT COUPLINGS, Product Number 6402010
Required at drive shaft splices. Requirements for sleeve coupling depends on connections necessary. Coupling consists of shaft coupling, square key, and two set screws.



MANUAL DISCONNECT SWITCH

If hoist is electric powered, a manual disconnect is required to meet O.S.H.A./N.E.C. compliance on hand operated cranes and can be found in Section 45, Motorized Dual Drive Components. For wiring information, refer to Acco standard bridge and runway electrification pages.

Optional equipment for motorized dual drive crane

The descriptions and product numbers for the following equipment are found in Section 45-1 through 45-4 for Motorized Dual Drive Components:

- 1. Reducer kits
- 2. Motor and brake kits
- 3. Control kits
- 4. Disconnect switch
- 5. Flatwire festoon tagline electrification

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Issued 6-1-86 Supersedes 3-1-85

standard equipment.

43-3

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SERIES 434

MOTOR DRIVEN END TRUCKS FOR TOP RUNNING SINGLE GIRDER CENTER DRIVE CRANES CAPACITIES: 1 TO 10 TONS SPANS TO 50 FEET

Series 434 top running, single girder, end trucks are designed for motorized center driven crane applications up to 50 foot spans. They

own construction.

The end trucks are of welded steel channel construction, equipped with diaphragms, jig welded and bored to provide alignment of wheels, axles and drive shaft. Wheel and gear replacement is accomplished without dismantling end trucks because of easy-to-remove axle. Rail sweeps are

combine the versatility and experience of Acco with the economy of your

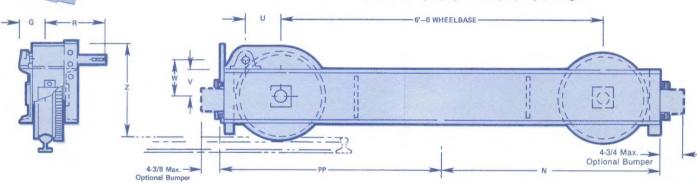
The end truck wheels are hardened steel double flanged with tapered treads which align and center the bridge on runway rails, resulting in uniform travel and reduced flange wear. All end truck wheels are equipped with prelubricated, tapered roller bearings, two to each wheel.

Ordering end trucks, components, and structural material separately can mean considerable savings in shipping charges and time required for delivery.

Parts list and crane fabrication instructions are packed with each pair of trucks.

WARNING: Equipment described herein is not designed for and should not be used for, lifting, supporting, or transporting humans.

Failure to comply with any one of the limitations noted herein can result in serious bodily injury and/or property damage.



Product	Сар	Max. Span.	, , , , , , , , , , , , , , , , , , , ,	End Truck										Shaft	Gear to Pinion	Ft. of	Net Wt. Per Pair
Number	Tons	Ft.	lbs.	Channel	Dia.	G	N	PP	R	U	V	W	Z	Dia.	Ratio	Crane Travel	Lbs.
4340010	1-3	50	11.900	8×11.5#	10	12/1	2' 0 1/2	3'-9-7/8	9-11/16	4	A	5-7/8	12-7/8	1 1/4	56:15	1.427	010
4340010	4	20	11.900	ox11.5#	10	4-3/4	3 -9-1/2	3 -3-1/6	9-11/16	4	4	5-7/6	12-7/0	1-1/4	30:15	1.427	910
4040000	6	50	10.000	10×15.3#	10	5-1/8	21 0	3'-9-3/8	0 11/16	2 12/10	_	C 1E/10	15 2/4	4 4 /0	C4.45	1.050	1175
4340020	7-1/2	20	19.900	10x15.3#	12	5-1/8	3 –9	3 -9-3/8	9-11/10	3-13/16	b	0-15/10	15-3/4	1-1/2	64:15	1.359	1175
4340030	10	50	33.400	12x20.7#	18	5-3/4	4'-1	4'-1-1/2	9-11/16	7-3/4	6	7-15/16	20	1-1/2	96:15	1.359	2000

Maximum 60 #/Yd rail.

(a) End truck loads must include a live load impact allowance of 1/2% of lifting speed in FPM, but not less than 15% when used with electric powered

End Truck Kit contains the following:

2 End Trucks with

Rail sweeps

Outrigger support brackets

Stub shafts w/ pinions

End truck pillow block bearings

Crane building instructions and parts list

All dimensions in inches unless otherwise noted.

OPTIONAL EQUIPMENT FOR MOTORIZED CENTER DRIVEN CRANES

The descriptions and product numbers for the following equipment are found in Section 45-5 through 45-12 for Motorized Center Drive Components:

- 1. Reducer and motor
- 2. Control kits
- 3. Disconnect switch
- 4. Flatwire festoon tagline electrification
- 5. Couplings and pillow blocks



WORK-RATED® SERIES 434 END TRUCKS FOR TOP RUNNING SINGLE GIRDER MOTOR DRIVEN CRANES CENTER DRIVE

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Issued 6-1-86 Supersedes 3-1-85

WORK-RATED®

MOTOR DRIVEN END TRUCKS FOR RUNNING DOUBLE BEAM CRANES

TOP RUNNING DOUBLE BEAM CRANES
CAPACITIES: 1½ TO 10 TONS
SPANS TO 60 FEET



The end trucks are of welded steel channel construction, equipped with diaphragms, jig welded and bored to provide alignment of wheels, axles and drive shaft. Wheel and gear replacement is accomplished without dismantling end trucks because of easy-to-remove axle. Rail sweeps are standard equipment.

The end truck wheels are hardened steel double flanged with tapered treads which align and center the bridge on the runway rails, resulting in uniform travel and reduced flange wear. All end truck wheels are equipped with prelubricated, tapered roller bearings, two to each wheel.

Ordering end trucks. components, and structural material separately can mean considerable savings in shipping charges and time required for delivery.

Parts list and crane fabrication instructions are packed with each pair of trucks.

WARNING: Equipment described herein is not designed for, and should not be used for lifting, supporting, or transporting humans.

Failure to comply with any one of the limitations noted herein can result in serious bodily injury and/or property damage.

End Truck	Cap. (Tons)	Max. Span (Ft.)	Max. Truck ^(a) Cap. (Lbs.)	Wheel Base	Beam Spacing	End Truck Channel	Wheel Tread Dia.	Drive Shaft Dia.	Gear to Pinion Ratio
	11/2-6	50							
4440010	7½	45	25,800	7′-8	5'-0	8 × 11.5 #	12	11/2	64:15
	10	15						ł	
4440020	7½-10	50	38,300	7′-8	5'-0	10 x 15.3 #	18	11/2	96:15
4440030	10	50	38,300	9'-2	6'-6	10 x 15.3 #	18	11/2	96:15
4440040	11/2-6	60	25,800	9'-2	5'-0	10 x 15.3 #	12	11/2	64:15
4440050	10	60	38,300	9'-2	5′-0	12 × 20.7 #	18	11/2	96:15
4440060	10	60	38,300	9'-2	6′-6	12 × 20.7 #	18	11/2	96:15

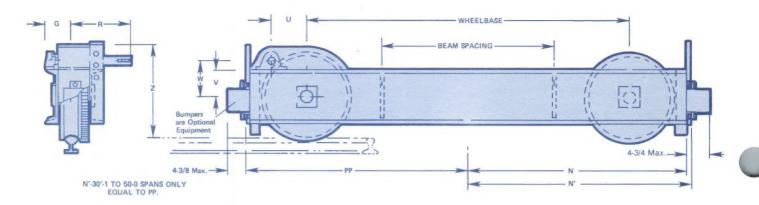
(a) End truck loads must include a live load impact allowance of 1/2% of lifting speed in FPM, but not less than 15% when used with electric powered hoist.

WARNING: Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the system in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact Acco at 76 Acco Drive, P.O. Box 792, York, PA 17405 for additional information if necessary.

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WORK-RATED® SERIES 444 END TRUCKS FOR TOP RUNNING DOUBLE GIRDER MOTOR DRIVEN CRANES CENTER DRIVE



DIMENSIONS

End Truck	G	N	PP	R	U	V	w	z	Rev. of Drive Shaft Per Ft. Crane Travel	Net Wt. Per Pair (Lbs.)
4440010	4-3/4	4'-8-3/4	4'-9-1/4	9-5/8	5-1/4	4	5-15/16	14-5/8	1.357	1240
4440020	5-1/2	5'-0	5'-0-1/2	9-7/8	8-11/16	5	6-15/16	18-5/8	1.357	2120
4440030	5-1/2	6'-0	6'-0-1/2	9-7/8	8-11/16	5	6-15/16	18-5/8	1.357	2212
4440040	5-1/8	6'-1	6'-1	9-5/8	3-13/16	5	6-15/16	15-3/4	1.357	1556
4440050	5-3/4	6'-6	6'-6	9-7/8	7-3/4	6	7-15/16	20	1.357	2564
4440060	5-3/4	6'-6	6'-6	9-7/8	7-3/4	6	7-15/16	20	1.357	2564

Maximum 60 # /yd. rail.

End Truck Kit contains the following:

2 End Trucks with

rail sweeps

Outrigger support brackets

Stub shafts with pinions

End truck pillow block bearings

Crane building instructions and parts list

All dimensions in inches unless otherwise noted.

OPTIONAL EQUIPMENT FOR MOTORIZED CENTER DRIVE CRANE

The descriptions and product numbers for the following equipment are found in Section 45-5 through 45-12 for Motorized Center Drive Components:

- 1. Reducer and Motor kits
- 2. Control kits
- 3. Disconnect switch
- 4. Flatwire festoon tagline electrification
- 5. Couplings and pillow blocks



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